9 VAC 25-720-50. Potomac - Shenandoah River Basin.

A. Total maximum daily load (TMDLs).

TMDL #	Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
1.	Muddy Creek	Nitrate TMDL Development for Muddy Creek/Dry River, Virginia	Rockingham	B21R	Nitrate	49,389.00	LB/YR
2.	Blacks Run	TMDL Development for Blacks Run and Cooks Creek	Rockingham	B25R	Sediment	32,844.00	LB/YR
3.	Cooks Creek	TMDL Development for Blacks Run and Cooks Creek	Rockingham	B25R	Sediment	69,301.00	LB/YR
4.	Cooks Creek	TMDL Development for Blacks Run and Cooks Creek	Rockingham	B25R	Phosphorus	0	LB/YR
5.	Muddy Creek	TMDL Development for Muddy Creek and Holmans Creek, Virginia	_	B22R	Sediment	286,939.00	LB/YR
6.	Muddy Creek	TMDL Development for Muddy Creek and Holmans Creek, Virginia	Rockingham	B22R	Phosphorus	38.00	LB/YR
7.	Holmans Creek	TMDL Development for Muddy Creek and Holmans Creek, Virginia	Rockingham/ Shenandoah	B45R	Sediment	78,141.00	LB/YR
8.	Mill Creek	TMDL Development for Mill Creek and Pleasant Run	Rockingham	B29R	Sediment	276.00	LB/YR
9.	Mill Creek	TMDL Development for Mill Creek and Pleasant	Rockingham	B29R	Phosphorus	138.00	LB/YR

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	1	Run	T	T	т т		
		Kuii					
10.	Pleasant Run	TMDL Development for	Rockingham	B27R	Sediment	0.00	LB/YR
		Mill Creek and Pleasant					
		Run					
11.	Pleasant Run	TMDL Development for	Rockingham	B27R	Phosphorus	0.00	LB/YR
		Mill Creek and Pleasant					
		Run					
12.	Linville Creek	Total Maximum Load	Rockingham	B46R	Sediment	5.50	TONS/YR
		Development for Linville					
		Creek: Bacteria and					
		Benthic Impairments					
13.	Quail Run	Benthic TMDL for Quail	Rockingham	B35R	Ammonia	7,185.00	KG/YR
		Run					
14.	Quail Run	Benthic TMDL for Quail	Rockingham	B35R	Chlorine	27.63	KG/YR
		Run					
15.	Shenandoah River	Development of	Warren & Clarke	DAAD	PCBs	179.38	G/YR
15.	Shehandoan River		Wallell & Clarke		PCDS	179.30	G/TR
		Shenandoah River PCB		B55R,			
		TMDL (South Fork and		B57R, B58R			
40	Ohanan daab Disaa	Main Stem)	\\\\		DOD-	0.00	0.070
16.	Shenandoah River	Development of	Warren & Clarke	BOIR	PCBs	0.00	G/YR
		Shenandoah River PCB					
47	Ohanan da ah Disaa	TMDL (North Fork)	Marrier O Olarier	140.7	DOD-	470.00	0.075
17.	Shenandoah River	Development of Shenandoah River PCB	Warren & Clarke	VVV	PCBs	179.38	G/YR
40	Cookeen Crains	TMDL (Main Stem)	Augusts	DAOD	Organic Callal	4.550.00	LDAYD
18.	Cockran Spring	Benthic TMDL Reports	Augusta	B10R	Organic Solids	1,556.00	LB/YR
		for Six Impaired Stream					
		Segments in the					

	T	Determos Chanandosh	1	1			1
		Potomac-Shenandoah					
		and James River Basins					
19.	Lacey Spring	Benthic TMDL Reports	Rockingham	B47R	Organic Solids	680.00	LB/YR
		for Six Impaired Stream					
		Segments in the					
		Potomac-Shenandoah					
		and James River Basins					
20.	Orndorff Spring	Benthic TMDL Reports	Shenandoah	B52R	Organic Solids	103.00	LB/YR
		for Six Impaired Stream					
		Segments in the					
		Potomac-Shenandoah					
		and James River Basins					
21.	Toms Brook	Benthic TMDL for Toms	Shenandoah	B50R	Sediment	8.1	T/YR
		Brook in Shenandoah					
		County, Virginia					
22.	Goose Creek	Benthic TMDLs for the	Loudoun,	A08R	Sediment	1,587	T/YR
		Goose Creek	Fauquier				
		Watershed					
23.	Little River	Benthic TMDLs for the	Loudoun	A08R	Sediment	105	T/YR
		Goose Creek					
		Watershed					
24.	Christians Creek	Fecal Bacteria and	Augusta	B14R	Sediment	145	T/YR
		General Standard Total					
		Maximum Daily Load					
		Development for					
		Impaired Streams in the					
		Middle River and Upper					
		South River					
		Watersheds, Augusta					
		County, VA					

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25.	Moffett Creek	Fecal Bacteria and	Augusta	B13R	Sediment	0	T/YR
		General Standard Total	, tagaota		Comment		.,
		Maximum Daily Load					
		Development for					
		Impaired Streams in the					
		Middle River and Upper					
		South River					
		Watersheds, Augusta					
		County, VA					
26.	Upper Middle River	Fecal Bacteria and	Augusta	B10R	Sediment	1.355	T/YR
	oppor madio ravo.	General Standard Total	, lagaota				,,,,,
		Maximum Daily Load					
		Development for					
		Impaired Streams in the					
		Middle River and Upper					
		South River					
		Watersheds, Augusta					
		County, VA					
27.	Mossy Creek	Total Maxiumum Daily	Rockingham	B19R	Sediment	0.04	T/YR
		Load Development for					
		Mossy Creek and Long					
		Glade Run: Bacteria					
		and General Standard					
		(Benthic) Impairments					
28.	Smith Creek	Total Maxiumum Daily	Rockingham,	B47R	Sediment	353,867	LB/YR
		Load (TMDL)	Shenandoah				
		Development for Smith					
		Creek					
<u>29.</u>	Abrams Creek	Opequon Watershed	Frederick	<u>B09R</u>	Sediment	478	<u>T/YR</u>
		TMDLs for Benthic					
		Impairments: Abrams					
		Creek and Lower					
L	I.	1	l	1	1	1	

		Opequon Creek, Frederick and Clarke Counties, Virginia					
30.	Lower Opequon Creek	Opequon Watershed TMDLs for Benthic Impairments: Abrams Creek and Lower Opequon Creek, Frederick and Clarke Counties, Virginia	Frederick, Clarke	<u>B09R</u>	<u>Sediment</u>	<u>1,039</u>	<u>T/YR</u>

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

TABLE B1 - POTOMAC RIVER SUB-BASIN RECOMMENDED SEGMENT CLASSIFICATIONS

SEGMENT			
NUMBER	DESCRIPTION OF SEGMENT	MILE TO MILE	CLASSIFICATION
1-23	Potomac River tributaries from the Virginia-West Virginia state line downstream to the	176.2 – 149.0	WQ
	boundary of the Dulles Area Watershed Policy		
1-24	Potomac River tributaries located within the boundaries of the Dulles Area Watershed	149.0 – 118.4	WQ
	Policy		
1-25	Potomac River tributaries from the downstream limit of the Dulles Area Watershed Policy	118.4 – 107.6	WQ
	to Jones Point		
1-26	Potomac River tributaries from Jones Point downstream to Route 301 bridge	107.6 – 50.2	WQ
1-27	All Streams included in the Occoquan Watershed Policy		WQ
1-28	Potomac tributaries from Route 301 bridge downstream to the mouth of the Potomac River	50.2-0.0	EL

TABLE B2 - POTOMAC RIVER SUB-BASIN - RECOMMENDED PLAN FOR WASTEWATER FACILITIES

FACILITY		RECEIVING	RECOMMENDED		TREATMENT					INSTITUTIONAL
NUMBER	NAME	STREAM	ACTION	SIZE	LEVEL (4)	BOD ₅	OUD	TKN	Р	ARRANGEMENT

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1	Hillsboro	North Fork	Construct new	.043(2)	AWT	7(1)	-	-	-	Loudoun County
		Catoctin Creek	facility							Sanitation Authority
		WQ (1 –23)								(LCSA)
2	Middleburg	Wancopin	Construct new	.135	AST	14 ⁽⁵⁾	-	-	-	LCSA
		Creek WQ (1-	facility; abandon							
		23)	old facility							
3	Middleburg	Unnamed	Abandon- pump							
	East and	tributary to	to new facility							
	West	Goose Creek								
		WQ (1 –23)								
4	Round Hill	North Fork	No further action	.2	AWT	10 ⁽⁵⁾	-	-	-	Town of Round Hill
		Goose Creek	recommended							
5	St. Louis	Beaver Dam	Construct new	.086	AST	20(5)	-	-	-	LSCA
		Creek WQ (1-	facility							
		23)								
6	Waterford	South Fork	No further action	.058	AST	24(5)	-	-	-	LSCA
		Catoctin Creek	recommended							
		WQ (1-23)								
7	Hamilton	Unnamed	Upgrade and or	.605 ⁽²⁾	AWT	7 ⁽⁷⁾	-	-	-	Town of Hamilton
		tributary to	expand							
		South Fork of								
		Catoctin Creek								
		WQ (1-23)								
8	Leesburg	Tuscarora	Upgrade and or	2.5	AWT	1 ⁽⁹⁾	-	1	0.1	Town of Leesburg
		Creek (1-24)	expand							
9	Lovettesville	Dutchman	Upgrade and or	.269 ⁽²⁾	AWT	7 ⁽⁷⁾	-	-	-	Town of
		Creek WQ (1-	expand							Lovetteville
		23)								
							1		<u> </u>	

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10	Purcellville	Unnamed	No further action	.5	AST	15 ⁽⁵⁾	-	-	-	Town of Purcellville
		tributary to	recommended							
		North Fork								
		Goose Creek								
		WQ (1-23)								
11	Paeonian	Unnamed	Construct new	.264(2)	AWT	7 ^(/)	-	-	-	LCSA
	Springs	tributary to	facility							
	J Springs	South Fork of	,							
		Catoctin Creek								
		WQ (1-23)								
12	Cedar Run	Walnut Branch	Construct new	1.16 ⁽²⁾	AWT	1 ⁽⁶⁾		1	0.1	Fauquier County
12		or Kettle Run		1.10	AVVI	1	-	!	0.1	Sanitation Authority
	Regional		facility							Sanitation Authority
		WQ (1-27)				- /6				
13	Vint Hill	South Run (1-	Upgrade and/or	.246	AST	14 ⁽⁵⁾	-	-	2.5	U.S. Army
	Farms	27)	expand							
14	Arlington	Four Mile Run	Upgrade and/or	30 ⁽³⁾	AWT	3 ⁽⁸⁾	-	1	0.2	Arlington County
		WQ (1-25)	expand							
15	Alexandria	Hunting Creek	Upgrade and/or	54	AWT	3(8)	-	1	.02	Alexandria
		WQ (1-26)	expand							Sanitation Authority
16	Westgate	Potomac River	Abandon- pump							
		WQ (1-26)	to Alexandria							
17	Lower	Pohick Creek	Upgrade and/or	36(3)	AWT	3/8	-	1	0.2	Fairfax County
	Potomac	WQ (1-26)	expand							
18	Little Hunting	Little Hunting	Abandon- pump							
	Creek	Creek WQ (1-	to Lower Potomac							
		26)								
19	Doque	Doque Creek	Abandon- pump							
	Creek	WQ (1-26)	to Lower Potomac							
20	Fort Belvoir	Doque Creek	Abandon- pump							
	1 and 2	WQ (1-26)	to Lower Potomac							

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21	Lorton	Mills Branch	Upgrade and/or	1.0	AWT	3 ⁽¹¹⁾	-	1	0.1	District of Columbia
		WQ (1-26)	expand							
22	UOSA	Tributary to	Expanded	10.9 ⁽³⁾	AWT	1 ⁽⁶⁾		1	0.1	USOA
	000/1	Bull Run WQ	capacity by 5 mgd	10.0	,,,,,				0.1	333,1
		(1-27)	increments							
23	Gainesville	Tributary Rock	Abandon Pump to							
	Haymarket	Branch WQ (1-	UOSA							
		27)								
24	Potomac	Neabsco Creek	Construct new	12 ⁽³⁾	AWT	3(8)	-	1	0.2	Occoquan-
	(Mooney)	WQ (1-26)	facility							Woodbridge
										Dumfries-Triangle
										Sanitary District
25	Belmont	Marumsco	Abandon- pump							
		Creek WQ (1-	to Potomac							
		26)								
26	Featherston	Farm Creek	Abandon- pump							
	e	WQ (1-26)	to Potomac							
27	Neabsco	Neabsco Creek	Abandon- pump							
2,	Neabooo	WQ (1-26)	to Potomac							
20	Duratria									
28	Dumfries	Quantico Creek	Abandon- pump							
		WQ (1-26)	to Potomac							
29	Dale City #1	Neabsco Creek	Upgrade and /or	4.0	AWT	3 ⁽⁸⁾	-	1	0.2	Dale Service
		WQ (1-26)	expand							Corporation (DSC)
30	Dale City #8	Neabsco Creek	Upgrade and /or	2.0	AWT	3 ⁽⁸⁾	1	1	0.2	DSC
		WQ (1-26)	expand							
31	Quantico	Potomac River	Upgrade and /or	2.0	AWT	3 ⁽⁸⁾	-	1	0.2	U.S. Marine Corps
	Mainside	WQ (1-26)	expand							
32	Aquia Creek	Austin Run WQ	Construct new	3.0	AWT	3(8)	-	1	0.2	Aquia Sanitary
		(1-26)	facility							District
33	Aquia	Aquia Creek	Abandon- pump							
	,	WQ (1-26)	to new facility							
		. = (: = 0)								

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34	Fairview	Potomac River	Construct new	.05	Secondary	Secondar	-	-	-	Fairview Beach
	Beach	(estuary)	facility			у				Sanitary District
35	Dahlgren	Upper	Upgrade and/or	.2	Secondary	Secondar	-	-	-	Dahlgren Sanitary
		Machodoc	expand			у				District
		Creek WQ (1-								
		28)								
36	Colonial	Monroe Creek	No further action	.85	Secondary	28(5) (13)				Town of Colonial
	Beach	EL (1-28)	recommended							Beach
37	Machodoc		Construct new	.89	Secondary &	48 ^{(10) (13)}	-	-	-	Machodoc Kinsale
	Kinsale		facility		Spray					Sanitary District
					Irrigation					
38	Callao		Construct new	.25	Secondary &	48(10) (13)	-	-	-	Callao Sanitary
			facility		Spray					District
					Irrigation					
39	Heathsville		Construct new	.10	Secondary &	48(10) (13)	-	-	-	Heathsville
			facility		Spray					Sanitary District
					Irrigation					
40	King George	Pine Creek	Construct new	.039	Secondary	30 ⁽¹³⁾	-	-	-	King George
	Courthouse		facility							County

TABLE B2 - NOTES: POTOMAC RIVER SUB-BASIN - RECOMMENDED PLAN FOR WASTEWATER TREATMENT

FACILITIES

⁽¹⁾ Year 2000 design flow 201 Facility Plan, P.L. 92-500, unless otherwise noted.

⁽²⁾ Year 2000 average flow from Potomac/Shenandoah 303(e) Plans, Vol V-A Appendix, 1975 pp. B-33-B-44.

⁽³⁾ Future expansion at unspecified date.

⁽⁴⁾ Secondary treatment: 24-30 mg/l BOD₅, advanced secondary treatment (AST): 11-23 mg/l, advanced wastewater treatment (AWT): <10mg/l BOD₅. A range is given to recognize that various waste treatment.processes have different treatment efficiencies.

⁽⁵⁾ Effluent limits calculated using mathematical modeling.

⁽⁶⁾ Effluent limits based on Occoquan Watershed Policy, presented under reevaluation.

⁽⁷⁾ Effluent limits based on treatment levels established by the Potomac/Shenandoah 303(e) Plan, Vol. V-A 1975, p. 237, to protect low flow streams and downstream water supply.

- (8) Effluent limits based on Potomac River Embayment Standards, presently under reevaluation. Nitrogen removal limits deferred until reevaluation is complete.
- (9) Effluent limits based on Dulles Watershed Policy, recommended for reevaluation. Interim effluent limits of 12 mg/l BOD₅ and 20 mg/l Suspended Solids will be met until the Dulles Area Watershed Standards are reevaluated.
- (10) Effluent limits based on Virginia Sewerage Regulation, Section 33.02.01.
- (11) Interim effluent limits of 30 mg/l BOD₅, 30mg/l Suspended Solids, and 4 mg/l Phosphorus, will be effective until average daily flows exceeds 0.75 MGD. At greater flows than 0.75 MGD, the effluent limitations will be defined by the Potomac Embayment Standards.
- (12) Secondary treatment is permitted for this facility due to the extended outfall into the main stem of the Potomac River.
- (13) This facility was also included in the Rappahannock Area Development Commission (RADCO) 208 Areawide Waste Treatment Management Plan and Potomac-Shenandoah River Basin 303 (e) Water Quality Management Plan.

TABLE B3 - SHENANDOAH RIVER SUB-BASIN RECOMMENDED SEGMENT CLASSIFICATIONS

SEGMENT			
NUMBER	DESCRIPTION OF SEGMENT	MILE TO MILE	CLASSIFICATION
1-1	North River-main stream and tributaries excluding segments 1-1a, 1-1b	56.4-0.0	EL
1-1a	Muddy Creek-main stream and War Branch, RM 0.1-0.0	3.7 - 1.7	WQ
1-1b	North River-main stream	16.1 - 4.6	WQ
1-2	Middle River-main stream and tributaries excluding segments 1-2a, 1-2b	69.9 - 0.0	EL
1-2a	Middle River-main stream	29.5 - 17.9	WQ
1-2b	Lewis Creek-main stream	9.6 - 0.0	WQ
1-3	South River-main stream and tributaries excluding segment 1-3a	52.2 - 0.0	EL
1-4	South Fork Shenandoah-main stream and tributaries excluding segments 1-4a, 1-4b, 1-4c	102.9 - 0.0	EL
1-4a	South Fork Shenandoah-main stream	88.1 - 78.2	WQ
l-4b	Hawksbill Creek-main stream	6.20 - 0.0	WQ
1-4c	Quail Run-main stream	5.2 - 3.2	WQ

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1-5	North Fork Shenandoah- main stream and tributaries excluding segment 1-5a, 1-	108.9 – 0.0	EL
	5h		
1-5a	Stony Creek-main stream	19.9 - 14.9	WQ
1-5b	North Fork Shenandoah-main stream	89.0 - 81.4	WQ
1-6	Shenandoah River-main stream and tributaries excluding segments 1-6a, 1-6b	57.4 - 19.8	EL
1- 6a	Stephens Run-main stream	8.3 - 0.0	WQ
1-6b	Dog Run-main stream	5.2 - 0.0	WQ
1-7	Opequon Creek-main stream and tributaries excluding segments 1-7a, 1-7b	54.9 - 23.6	EL
l-7a	Opequon Creek-main stream	32.3 - 23.6	WQ
1-7b	Abrams Creek-main stream	8.7 - 0.0	WQ
1-8	All Virginia streams upstream of Opequon-Potomac confluence that have		EL
	headwaters in Frederick County		
1-9	All Virginia streams upstream of Opequon-Potomac confluence that have		EL
	headwaters in Highland County		
DM D	Non-Mile and a second from the picture and the		

^{*} R.M. = River Mile, measured from the river mouth

TABLE B4 - SHENANDOAH RIVER SUB-BASIN - RECOMMENDED PLAN FOR SELECTED INDUSTRIAL WASTEWATER TREATMENT FACILITIES

		I	T	l DEC	COMMEND		
FACILITY	NAME ⁽¹⁾	INDUSTRIAL CATEGORY	RECEIVING STREAM		COMMEND DAD ALLO		COMPLIANCE
NUMBER			CLASSIFICATION	BOD ₅	TKN	NH ₃ - N	SCHEDULE
1	Wampler	Food Processing	War Branch WQ (1-1a)	84 ⁽³⁾	-	-	None
6	Wayn-Tex	Plastic and Synthetic Materials Mfg.*	South River WQ (F3a)	44 ⁽⁵⁾	-	-	None
7	DuPont	Plastic and Synthetic Materials Mfg.*	South River WQ (F3a)	600	-	50	None
8	Crompton- Shenandoah	Textile Mills*	South River WQ (1-3a)	60	173 ⁽⁴⁾	88	None
10	General Electric	Electroplating*	South River WQ (1-3a)	BPT	Effluent Lir	nits	None
12	Merck	Miscellaneous Chemicals (Pharmaceutical)*	S. F. Shenandoah River WQ (1-4a)	3454	2846	1423	Consent Order

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17	VOTAN	Leather, Tanning and Finishing*	Hawksbill Creek WQ (I-4b)	240	75	-	None
21	National Fruit	Food Processing	N. F. Shenandoah River WQ (1-5b)	(6)	(6)	(6)	None
22	Rockingham Poultry	Food Processing	N. F. Shenandoah River WQ (1-5b)	(6)	(6)	(6)	None
23	Shen-Valley Meat Packers	Food Processing	N. F. Shenandoah River WQ (1-5b)	(6)	(6)	(6)	None
35	O'Sullivan	Rubber Processing* Machinery and Mechanical Products Manufacturing	Abrams Creek WQ (I-7b)	BPT	Effluent Lir	nits	None

TABLE B4 - NOTES: SHENANDOAH RIVER SUB-BASIN - RECOMMENDED PLAN SELECTED INDUSTRIAL

WASTEWATER TREATMENT FACILITIES

- (1) An * identifies those industrial categories that are included in EPA's primary industry classification for which potential priority toxic pollutants have been identified.
- (2) Allocation (lb/d) based upon 7Q10 stream flow. Tiered permits may allow greater wasteloads during times of higher flow. BPT = Best Practicable Technology.
- (3) A summer 1979 stream survey has demonstrated instream D.O. violations. Therefore, the identified wasteload allocation is to be considered as interim and shall be subject to further analysis.
- (4) The NPDES permit does not specify TKN but does specify organic-N of 85 lb/d. TKN is the sum of NH -N and organic -N.
- (5) This allocation is based upon a flow of 0.847 MGD.
- (6) The total assimilative capacity for segment WQ (1-5b) will be developed from an intensive stream survey program and development of an appropriate calibrated and verified model. Wasteload allocations for National Fruit, Rockingham Poultry and Shen-Valley will be determined after the development of the calibrated and verified model and the determination of the segment's assimilative capacity.

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		RECOMMENDED	F	ACILITY		WASTELOAD		
FACILITY	NAME	RECEIVING	RECOMMENDED	SIZE ¹⁾	TREATMENT ⁽²⁾	ALLOCATION ⁽³⁾	INSTITUTIONAL	COMPLIANCE ⁽
NUMBER		STREAM	ACTION		LEVEL	lb/d BOD₅	ARRANGEMENT	SCHEDULE
2	Harrisonburg	North River WQ	Correct I/I	12.0(5)	AST	2,0002(6)	Harrisonburg-	None
	Rockingham	(1-1)					Rockingham	
	Reg. Sewer						Regional Sewer	
	Auth.						Authority	
3	Verona	Middle River WQ	Construct new	0.8	Secondary	Secondary	Augusta County	July 1, 1983
		(1-2a)	facility, abandon			Limits	Service Authority	
			old plant, correct					
			1/1					
4	Staunton	Middle River WQ	Upgrade, provide	4.5	Secondary	Secondary	City of Staunton	July 1, 1983
		(1-2a)	outfall to Middle			Limits		
			River, correct I/I					
5	Fishersville	Christians Creek	No further action	2.0	Secondary	Secondary	Augusta County	None
		EL (1-2)	recommended			Limits	Service Authority	
9	Waynesboro	South River WQ	Upgrade, correct	4.0	AWT with	250 ⁽⁵⁾	City of	July 1, 1983
		(1-3a)	1/1		nitrification		Waynesboro	
11	Grottoes	South River EL	Construct new	0.225	Secondary	Secondary	Town of Grottoes	No existing
		(1-3)	facility			Limits		facility
13	Elkton	S.F. Shenandoah	Construct new	0.4	Secondary	Secondary	Town of Elkton	July 1, 1983
		River WQ (1-4a)	facility, abandon			Limits		
			old plant					
14	Massanutten	Quail Run WQ (1-	No further action	1.0	AWT	84.0(8)	Private	None
	Public	4c)	recommended					
	Service							
	Corporation							
15	Shenandoah	S.F. Shenandoah	Upgrade, expand,	0.35	Secondary	Secondary limits	Town of	No existing
		River EL (1-4)	correct I/I				Shenandoah	facility
16	Stanley	S.F. Shenandoah	Construct new	0.3	Secondary	Secondary limits	Town of Stanley	No existing
		River EL (1-4)	facility					facility

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			0.8	Secondary	Secondary	Town of Luray	July 1, 1983
	WQ (1-4b)	facility, abandon			Limits		
		old plant, correct					
		1/1					
Front Royal	Shenandoah	Construct new	2.0	Secondary	Secondary	Town of Front	July 1, 1983
	River EL (1-6)	facility, abandon		•	Limits	Royal	
	, ,	-					
Broadway	N.F. Shenandoah		(6)	(6)	(6)	Town of	July 1, 1983
Dioadway							July 1, 1903
		_	(6)	(6)	(6)		
Timberville		Upgrade, expand,	(0)	(6)	(6)		July 1, 1983
	River WQ (1-5b)	investigate I/I				Timberville	
New Market	N.F. Shenandoah	Upgrade,	0.2	Secondary	Secondary	Town of New	July 1, 1983
	River EL (1-5)	investigate I/I			Limits	Market	
Mount	N.F. Shenandoah	Upgrade, expand,	.0.2	Secondary	Secondary	Town of Mount	July 1, 1983
Jackson	River EL (1-5)	correct I/I			Limits	Jackson	
Edinburg	N.F. Shenandoah	Upgrade, expand,	0.15	Secondary	Secondary	Town of Edinburg	July 1, 1983
	River EL (1-5)	investigate I/I		AST	Limits 65	Public	None
Stony Creek	River EL (1-5)	No further action	0.6	AST	65	Public	
Sanitary	Stony Creek WQ	required					
District	(1-5a)						
Woodstock	N.F. Shenandoah		0.5	Secondary	Secondary	Town of	July 1, 1983
	River EL (1-5)				Limits	Woodstock	
Toms Brook-	Toms Brook EL	Construct new	0.189	Secondary	Secondary	Toms Brook	No existing
Mauertown	(1-5)	facility			Limits		facility
Strasburg	N.F. Shenandoah	Upgrade, expand,	0.8	Secondary	Secondary	Town of	July 1, 1983
	River EL (1-5)	correct I/I			Limits	Strasburg	
Middletown	Meadow Brook	Upgrade, expand	0.2	Secondary	Secondary	Town of	July 1, 1983
	EL (1-5)					Middletown	
	Mount Jackson Edinburg Stony Creek Sanitary District Woodstock Toms Brook- Mauertown Strasburg	River EL (1-6) Broadway N.F. Shenandoah River WQ (1-5b) Timberville N.F. Shenandoah River WQ (1-5b) New Market N.F. Shenandoah River EL (1-5) Mount N.F. Shenandoah River EL (1-5) Edinburg N.F. Shenandoah River EL (1-5) Stony Creek River EL (1-5) Sanitary Stony Creek WQ District (1-5a) Woodstock N.F. Shenandoah River EL (1-5) Toms Brook- Mauertown (1-5) Strasburg N.F. Shenandoah River EL (1-5) Middletown Meadow Brook	Front Royal Shenandoah River EL (1-6) facility, abandon old plant, correct I/I Broadway N.F. Shenandoah Upgrade, expand, investigate I/I Timberville N.F. Shenandoah Upgrade, expand, investigate I/I New Market N.F. Shenandoah Upgrade, expand, investigate I/I Mount N.F. Shenandoah Upgrade, expand, investigate I/I Mount N.F. Shenandoah Upgrade, expand, correct I/I Edinburg N.F. Shenandoah Upgrade, expand, river EL (1-5) investigate I/I Stony Creek River EL (1-5) No further action required District (1-5a) No further action required Woodstock N.F. Shenandoah River EL (1-5) Toms Brook- Toms Brook EL Construct new facility Strasburg N.F. Shenandoah Upgrade, expand, correct I/I Middletown Meadow Brook Upgrade, expand, correct I/I	Front Royal Shenandoah River EL (1-6) facility, abandon old plant, correct I/I Broadway N.F. Shenandoah Upgrade, expand, River WQ (1-5b) investigate I/I New Market N.F. Shenandoah Upgrade, expand, River WQ (1-5b) investigate I/I New Market N.F. Shenandoah Upgrade, investigate I/I Mount N.F. Shenandoah Upgrade, expand, O.2 investigate I/I Edinburg N.F. Shenandoah Upgrade, expand, O.15 River EL (1-5) investigate I/I Stony Creek River EL (1-5) No further action O.6 Sanitary Stony Creek WQ required District (1-5a) Woodstock N.F. Shenandoah River EL (1-5) Toms Brook- Toms Brook EL Construct new facility Strasburg N.F. Shenandoah Upgrade, expand, O.189 River EL (1-5) Correct I/I Middletown Meadow Brook Upgrade, expand, O.8 River EL (1-5) Correct I/I	Front Royal Shenandoah River EL (1-6) facility, abandon old plant, correct I/I Broadway N.F. Shenandoah River WQ (1-5b) investigate I/I New Market N.F. Shenandoah River EL (1-5) investigate I/I Mount N.F. Shenandoah Upgrade, expand, River EL (1-5) investigate I/I Edinburg N.F. Shenandoah Upgrade, expand, O.2 Secondary investigate I/I Edinburg N.F. Shenandoah Upgrade, expand, O.15 Secondary River EL (1-5) investigate I/I Stony Creek River EL (1-5) No further action River EL (1-5) Sanitary Stony Creek WQ (1-5b) River EL (1-5) Secondary River EL (1-5) Rofurther action O.6 AST Stony Creek River EL (1-5) Rofurther action O.5 Secondary River EL (1-5) Rofility Secondary Rofility Secondary Rofility Rofility Secondary Rofility Rofility Secondary Rofility Rofility Rofility Secondary Rofility Rofility Rofility Rofility Secondary Rofility	Front Royal Shenandoah River EL (1-6)	Front Royal Shenandoah River EL (1-6) Shenandoah River EL (1-5) Shenandoah River EL (1-5) Sanitary Strasburg Strasburg Model of Model of Strasburg Model of Strasburg Model of Mod

33	Stephens	Stephens Run EL	Upgrade, expand	0.54	AST	72	Frederick-	July 1, 1983
	City	(1-6a)					Winchester	
	Stephens						Service Authority	
	Run							
34	Berryville	Shenandoah	Upgrade, provide	0.41	Secondary	Secondary	Town of Berryville	July 1, 1983
		River EL (1-6)	outfall to			Limits		
			Shenandoah					
			River, investigate					
			1/1					
36	Frederick-	Opequon Creek	Construct new	6.0	AWT with	456 ⁽⁷⁾	Frederick-	July 1, 1983
	Winchester	WQ (1-7a)	facility, abandon		nitrification		Winchester	
	Regional		county and city				Service Authority	
			plans, correct I/I					
37	Monterey	West Strait Creek	Upgrade, correct	0.075	Secondary	Secondary	Town of Monterey	July 1, 1983
		EL (1-9)	1/1			Limits		
	Winchester Regional	WQ (1-7a) West Strait Creek	facility, abandon county and city plans, correct I/I Upgrade, correct		nitrification	Secondary	Winchester Service Authority	

TABLE B5 - NOTES: SHENANDOAH RIVER SUB-BASIN - RECOMMENDED PLAN FOR SELECTED MUNICIPAL

WASTEWATER TREATMENT FACILITIES

- (1) Year 2000 design flow (MGD) unless otherwise noted.
- ⁽²⁾ Secondary treatment: 24-30 mg/l BOD₅, advanced secondary treatment (AST): 11-23 mg/l BOD₅, advanced wastewater treatment (AWT): <10 mg/l BOD₅. A range is given to recognize that various waste treatment processes have different treatment efficiencies.
- (3) Recommended wasteload allocation calculated using mathematical modeling based upon 7Q10 stream flows. Tiered permits may allow greater wasteloads during periods of higher stream flows. Allocations other than BOD₅ are noted by footnote.
- (4) The July 1, 1983, data is a statutory deadline required by P.L. 92-500, as amended by P.L. 92-217. The timing of construction grant funding may result in some localities to miss this deadline.
- (5) Year 2008 design.
- (6) This BOD loading is based on a 7QI0 flow rate of 26.8 cfs at the HRRSA discharge.
- $^{(7)}$ NH₃ -N = 50 lb/d.
- (8) This allocation is based on a TKN loading no greater than 84 lb/day.

9 VAC 25-720-90. Tennessee-Big Sandy River Basin.

A. Total maximum Daily Load (TMDLs).

TMDL#	Stream Name	TMDL Title	City/	WBID	Pollutant	WLA	Units
			County				
1.	Guest River	Guest River Total	Wise	P11R	Sediment	317.52	LB/YR
		Maximum Load Report					
2.	Cedar Creek	Total Maximum Daily	Washington	O05R	Sediment	1,789.93	LB/YR
		Load (TMDL)					
		Development for Cedar					
		Creek, Hall/Byers Creek					
		and Hutton Creek					
3.	Hall/Byers Creek	Total Maximum Daily	Washington	O05R	Sediment	57,533.49	LB/YR
		Load (TMDL)					
		Development for Cedar					
		Creek, Hall/Byers Creek					
		and Hutton Creek					
4.	Hutton Creek	Total Maximum Daily	Washington	O05R	Sediment	91.32	LB/YR
		Load (TMDL)					
		Development for Cedar					
		Creek, Hall/Byers Creek					
		and Hutton Creek					
5.	Clinch River	Total Maximum Daily	Tazewell	P01R	Sediment	206,636	LB/YR
		Load Development for					
		the Upper Clinch River					
		Watershed					
6.	Lewis Creek	Total Maximum Daily	Russell	P04R	Sediment	21,732	LB/YR
		Load Development for				40,008	
		the Lewis Creek					
		Watershed					
7.	Black Creek	General Standard Total	Wise	P17R	Manganese	2,127	KG/YR

		Maximum Daily Load Development for Black Creek, Wise County, Virginia					
8.	Dumps Creek	General Standard Total Maximum Daily Load Development for Dumps Creek, Russell County, Virginia	Russell	P08R	Total Dissolved Solids	1,631,575	KG/YR
9.	Dumps Creek	General Standard Total Maximum Daily Load Development for Dumps Creek, Russell County, Virginia	Russell	P08R	Total Suspended Solids	316,523	KG/YR
10.	Beaver Creek	Total Maximum Daily Load Development for the Beaver Creek Watershed	Washington	O07R	Sediment	784,036	LB/YR

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

TABLE B1 - SEWERAGE SERVICE AREAS

			NPDES LIMITS ³			
		Receiving				
Map ¹		Stream	FLOW	BOD₅	SS	Status of Applicable ⁴ Section 201 Programs (March
No.	Locality	Classification ²	(mgd)	(1lbs/day)	(lbs/day)	1977)
14T	Abingdon	EL	0.6	840	840	Step III at EPA for award.
14B	Amonate	EL	Permit to	be issued in	future	Not on priority list.
4T	Appalachia	EL	0.3	75	75	To be studied with Big Stone Gap
5T	Big Stone Gap	EL	0.8	240	240	Recommended for FY 77 Step 1.

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Bishop	EL Permit to be issued in future		Not on priority list.				
Bristol	EL	Served b	by plant in Ten	nessee	Health hazard area to be served by collection system		
					funded in FY 76. Extension of existing interceptor into		
					Bearer Creek & Sinking Creek area to be funded by		
					Region IV EPA and Tennessee. Also infiltration/inflow		
					study to be funded in FY 77.		
Chilhowie	EL	0.265	68.5	79.6	Proposed Step I study with Marion.		
Cleveland	WQ	0.05	12.5	12.5	Step III grant awarded by EPA.		
Clinchport	WQ	Not to ex	kceed present	l discharge	Town and Country Authority has not yet applied for Step I		
					from FY 76 funds.		
Clintwood	WQ	0.235	*70.5/117.5	*70.5/	On FY 77 list for Step I.		
				117.5			
Coeburn	WQ	0.4	160 160		On FY 77 list for Step I.		
					•		
Damascus	EL	0.25	62.5	62.5	Final audit and inspection of facility completed.		
Duffield	EL	0.075	30	30	Not on priority list.		
Dungannon- Fort	WQ	Permit to be issued in future			Not on priority list.		
Blackmore							
Gate City- Weber	EL	0.504	*151/252	*151/252	Step I in progress.		
City							
Harmon-Big		1.25	156	312	System is approved by state and submitted to EPA.		
Rock							
Grundy-Vansant	WQ	Permit to	b be issued in	<u>l</u> future	System is approved and submitted to EPA.		
Haysi	WQ	Permit to	be issued in	future	Step I plan is complete. Town disapproved plan. SWCB		
					evaluating alternatives.		
Hurley	WQ	Permit to	be issued in	future	Step I plan complete and under review by state.		
Jonesville	EL	0.15	38	38	Not on priority list.		
Lebanon	WQ	0.2	60	60	Step III application at EPA.		
Marion	EL	1.7	510	510	Step I recommended for FY 77. Marion is proceeding on		
I							
					infiltration/inflow study under prior approval from EPA.		
	Chilhowie Cleveland Clinchport Clintwood Coeburn Damascus Duffield Dungannon- Fort Blackmore Gate City- Weber City Harmon-Big Rock Grundy-Vansant Haysi Hurley Jonesville Lebanon	Bristol EL Chilhowie EL Cleveland WQ Clinchport WQ Clintwood WQ Coeburn WQ Damascus EL Duffield EL Dungannon- Fort WQ Blackmore Gate City- Weber EL City Harmon-Big Rock Grundy-Vansant WQ Haysi WQ Jonesville EL Lebanon WQ	Bristol EL Served to Serve	Bristol EL Served by plant in Ten Chilhowie EL 0.265 68.5 Cleveland WQ 0.05 12.5 Clinchport WQ Not to exceed present Clintwood WQ 0.235 *70.5/117.5 Coeburn WQ 0.4 160 Damascus EL 0.25 62.5 Duffield EL 0.075 30 Dungannon- Fort WQ Permit to be issued in Blackmore Gate City- Weber EL 0.504 *151/252 City Harmon-Big 1.25 156 Rock Grundy-Vansant WQ Permit to be issued in Haysi WQ Permit to be issued in Hurley WQ Permit to be issued in Jonesville EL 0.15 38 Lebanon WQ 0.2 60	Bristol EL Served by plant in Tennessee		

CHAPTER 720. WATER QUALITY MANAGEMENT PLANNING REGULATION.

7T, 8T	Norton	WQ	0.77,	832,371	640,0184	Step I in process (with Wise).
			0.22			
2T	Pennington Gap	EL	0.315	410	315	Step I recommended for FY 76. Community has not yet
						completed Step I application.
1 B	Pound	WQ	0.175	44	44	Step III funded by EPA. Facility nearly completed.
19T	Raven-Doran	WQ	0.26	67.2	78	System to remain unchanged.
20T	Richlands	WQ	0.8	845	650	Step I in process. Step II recommended in FY 77.
	Rosedale	WQ	Permit to	be issued in	future	Not on priority list.
	Rose Hill-Ewing	EL	Permit to	be issued in	future	Not on priority list.
3T	St. Charles	EL	0.125	25	25	Abandonment proposed. Then to be served by
						Pennington Gap, subject to recommendations of Facility
						Plan.
12T	St. Paul	WQ	0.4	100	100	Complete and audited by EPA.
22T	Saltville	EL	0.5	125	125	Complete and audited by EPA.
	Sugar Grove	EL	Permit to	be issued in	future	Not on priority list.
	Teas					
15T	Swords Creek-	EL	0.144	187	144	Step I in FY 76. Step II recommended in FY 77.
	Honaker					
24T	Tazewell, Town	EL	0.70	*210/350	*210/350	Step I recommended in FY 77.
	of					
10B,	Trammel-	WQ	Permit to	be issued in	<u>I</u> future	Not on priority list.
11B,	McClure					
12B						
9T	Wise	WQ	0.28	112	112	Step I in progress (with Norton).
1.	i	1	1	1	1	

Dischargers are shown on Plate 3-B (Map No. with "B" designates Big Sandy) and 3-T (Map No. with "T" designates

Tennessee).

Source: Thompson & Litton and State Water Control Board.

²Effluent Limiting (EL) or Water Quality (WQ).

³ For existing sewage treatment facility.

⁴ For new sewage treatment facility.

^{*}Seasonal NPDES allowable loading: April to September/October to March.

9 VAC 25-720-130. New River.

A. Total maximum Daily Load (TMDLs).

Stream Name	TMDL Title	City/County	WBID	Pollutant	WLA	Units
Stroubles Creek	Benthic TMDL for	Montgomery	N22R	Sediment	233.15	T/YR
	Stroubles Creek in					
	Montgomery County,					
	Virginia					
Back Creek	Fecal Bacteria and	Pulaski	N22R	Sediment	0.28	T/YR
	General Standard Total					
	Maximum Daily Load					
	Development for Back					
	Creek Watershed,					
	Pulaski County, VA					
Crab Creek	Fecal Bacteria and	Montgomery	N18R	Sediment	77	T/YR
	General Standard Total					
	Maximum Daily Load					
	Development for Crab					
	Creek Watershed,					
	Montgomery County, VA					
Peak Creek	Fecal Bacteria and	Pulaski	N17R	Copper	12	KG/YR
	General Standard Total					
	Maximum Daily Load					
	Development for Peak					
	Creek Watershed,					
	Pulaski County, VA					
Peak Creek	Fecal Bacteria and	Pulaski	N17R	Zinc	57	KG/YR
	General Standard Total					
	Maximum Daily Load					
	Development for Peak					
	Creek Watershed,					
	Stroubles Creek Back Creek Crab Creek Peak Creek	Stroubles Creek Benthic TMDL for Stroubles Creek in Montgomery County, Virginia Back Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Back Creek Watershed, Pulaski County, VA Crab Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak	Stroubles Creek Benthic TMDL for Stroubles Creek in Montgomery County, Virginia Back Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Back Creek Watershed, Pulaski County, VA Crab Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA	Stroubles Creek Benthic TMDL for Stroubles Creek in Montgomery County, Virginia Back Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Back Creek Watershed, Pulaski County, VA Crab Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak	Stroubles Creek Benthic TMDL for Stroubles Creek in Montgomery N22R Sediment Stroubles Creek in Montgomery County, Virginia Back Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Back Creek Watershed, Pulaski County, VA Crab Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak	Stroubles Creek Benthic TMDL for Stroubles Creek in Montgomery County, Virginia Back Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Crab Creek Watershed, Montgomery County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA Peak Creek Fecal Bacteria and General Standard Total Maximum Daily Load Development for Peak Creek Watershed, Pulaski County, VA

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		Pulaski County, VA					
6.	Bluestone River	Fecal Bacteria and General Standard Total	Tazewell	N36R	Sediment	81.4	T/YR
		Maximum Daily Load Development for					
		Bluestone River					
<u>7.</u>	Hunting Camp Creek	"Total Maximum Daily Load (TMDL) Development for Hunting Camp Creek Aquatic Life Use (Benthic) and E. coli (Bacteria) Impairments"	Bland	<u>N31R</u>	Sediment	0	<u>LB/YR</u>

B. Stream segment classifications, effluent limitations including water quality based effluent limitations, and waste load allocations.

TABLE B1- SEWERAGE SERVICE AREAS

		Receiving2		NPDES Limits3		
Map1		Stream		Flow BOD5 SS	Status of Applicable4 Section 201	
No.	Locality	Classification	(mgd) (kg/day) (kg/day)			Programs (January 1980)
	Abbs Valley	WQ	Permit not ne	eded at present		Not on priority list
	Austinville	EL	Permit not ne	eded at present		Not on priority list
	Bastian	EL	Permit not ne	eded at present		Continue to use septic tanks for present
1	Blacksburg	EL	6.0	544.8	544.8	Completed
	Bland	EL	Permit to be i	ssued in future		Not on priority list
29	Bluefield	WQ	3.5	106	106	Near Completion
	Boissevain	WQ	Effluent treated at Pocahontas			Redesign to treat at Pocahontas underway
2	Christiansburg	WQ	2.0	113.5	113.5	Completed
3	Dublin	EL	.22	29.9/49.9	29.9/49.9	To be connected to Pepper's Ferry STP
						(Radford Cluster) in FY-80
	Elk Creek	EL	Permit not ne	eeded at present		Continue to use septic tanks
4	Fairlawn	EL	.26	47	47	To be connected to Pepper's Ferry STP
						(Radford Cluster)
	Falls Mills	WQ	.144	5.5	5.5	Step I approved; limits for new plant
	Flat Ridge	EL	Permit not ne	eded at present	<u>I</u>	Not on priority list
*5	Floyd	EL	.1	59.0	45.4	Small community; Step IV
13	Fries	EL	.02	11.8	9.1	Step I approved
14			.16	94.5	72.7	
17	Galax	EL	1.5	170	170	Not on priority list
	Glen Lyn	EL	Permit not ne	eeded at present	l	Not on priority list

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15	Hillsville	EL	.2	23	23	Step I to be approved soon
13	Timsvine	LL				Step I to be approved soon
16			.15	17	17	
*18	Independence	EL	.2	22.7	22.7	Step I approved; selected alternative
						was for one plant
19			.1	11.4	11.4	
	Ivanhoe	EL	Permit not ne	eded at present		Continue to use septic tanks
	Max Meadows	EL	Permit to be i	ssued in future		Not on priority list
	Mechanicsburg	EL	Permit not ne	eded at present		Not on priority list
6	Narrows	EL	0.60	354.0	272.0	Step I at EPA; Step II - FY-80
	Newport	EL	Permit not ne	eded at present		Not on priority list
7	Pearisburg	EL	0.30	177.0	136.0	Step I at EPA; Step II - FY-80; Step III
						- FY-84
	Pembroke	EL	Permit not ne	eded at present		Not on priority list
*30	Pocahontas	WQ	.15	17	17	Step I grant approved to correct I/I
						problems
8	Pulaski	EL	2.0	234/303	234	To be connected to Pepper's Ferry STP
						(Radford Cluster) in FY-80 (Step II)
9	Radford STP	EL	2.5	1475	925	Step II - FY-80
*10	Rich Creek	EL	.12	71	54	Step I at EPA, Step IV - FY-83
31	Riner	EL	.035	4.0	4.0	Completed
	Rocky Gap	EL	Permit not ne	eded at present		Continue to use septic tanks for present
12	Rural Retreat	EL	0.15	37.5	37.5	Step I to be completed in FY-80
	Speedwell	EL	Permit not ne	eded at present		Continue to use individual septic tanks
						for present

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	Troutdale	EL	Permit not needed at present			Continue to use individual septic tanks
						for present
	Woodlawn	EL	Permit to be issued in future			Not on priority list
11	Wytheville	EL	20	400	200	Sewage treatment plant completed

1Discharges are shown on Plate 3.

2Effluent Limiting (E.L.) or Water Quality Limiting (WQ).

3For existing sewage treatment facility.

4For new sewage treatment facility.

^{*}Small communities with combined Step II and III Grants.

TABLE B2- EFFLUENT LIMITS(1) (4) NEW RIVER BASIN

Discharge	Receiving Stream	Maximum BOD5 Loading Limits (kg/day)		
Troutdale	Fox Creek	6.1		
Independence	Peachbottom Creek	13.5		
Fries	New River	50.5		
Galax	Chestnut Creek	240.3		
Hillsville	Little Reed Island Creek	99.6		
Woodlawn	Crooked Creek	69.5		
Speedwell	Cripple Creek	17.4		
Austinville	New River	19.5		
Rural Retreat	South Fork	50.5		
Wytheville	Reed Creek	298.3		
Max Meadows	Reed Creek	82.4		
(3)Pulaski	Peak Creek	316.8		
Floyd	Dodd Creek	24.1		
Riner	Mill Creek	9.8		
Blacksburg	New River	583.4		
Christiansburg	Crab Creek	359.4		
(3)Dublin-New River- Fairlawn-Radford-Plum Creek	New River	772.7		

Newport	Sinking Creek	2.9
Pembroke	New River	28.4
Bland	Walker Creek	10.3
Mechanicsburg	Walker Creek	3.1
Narrows-Pearisburg	New River	110.8
Bastian	Wolf Creek	10.4
Rocky Gap	Wolf Creek	9.0
Rich Creek	Rich Creek	19.9
Glen Lyn	New River	5.7
Bluefield	Bluestone River	136.4
(2) Abbs Valley	Laurel Fork	11.4
(2) Pocahontas	Laurel Fork	5.5
(2) Boissevain	Laurel Fork	5.9

- (1) Other effluent limitations will be determined by Water Quality Standards and/or Best Available Technology requirements.
- (2) Secondary treatment will be required until a further verification of the model is made to document the need for treatment beyond secondary.
 - (3) To join Radford Cluster.
- (4) This table supersedes Table 152, page 199, Thompson & Litton, Inc., New River Basin Comprehensive Water Resources Plan, Volume V-A.

TABLE B3- NEW RIVER BASIN INDUSTRIAL EFFLUENT LIMITATIONS*

Parameters in Average kg/day or (Concentration) as mg/l

FACILITY NUMBER

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MAP NUMBER	BOD5	SS	OIL & GREASE	IRON	COPPER	
20 APCO	2020					
004		382	192			
401	1.14			(1.0) MAX	(1.0) MAX	
501		1.14				
006		318	159			
21 Burlin gton Industries	BOD5	SS	PHENOLS	SULFIDE	ALUMINUM	
001						
	346	354	1.7	0.9	1.0	
22 Celanese Fibers Co.	FLOW	BOD5	SS	COD		
002	(MGD)					
003	2.8	(30)				
	3.5	2,999	2,023	27,694		
23 Hercules, Inc.	SS					
001	34					
24 Lynchburg Foundry	SS	OIL &	PHENOLS			
001		GREASE				
	143	53.1	1.04			
25 RAAP Combined Ind.	FLOW	BOD5	SS	COD	OXIDIZED	SULFATE
026	(MGD)				NITROGEN	
	1.0	114	6,714	237	18,697	565
			114			67

26 New Jersey Zinc	BOD5	SS	TOTAL	CYANIDE	DISSOLVED LEAD	DISSOLVED ZINC	DISSOLVED IRON
001		(38)			(0.25)	(1.0)	(0.3)
002		(.30)			(0.25)	(1.0)	(0.25)
003		(20)	(0.02)		(0.35)	(1.0)	(0.25)
004		(30)	(0.02)		(1.0)	(0.25)	
005		(30)	(0.25)		(0.25)	(1.0)	(0.25)
006	2.3	2.3					
27 Elk Creek Raycarl	SS	OIL &	IRON		PHOSPHATE	ZINC	
Products		GREASE					
	(5)	(10)	(1)		(2)	(0.5)	
28 Fields Mfg	BOD5	SS	OIL &	GREASE	TEMP.		
	3.6	4.1	0.8		75°F		

Certified True and Accurate:		
	Robert G. Burnley	
	Director, DEQ	
Date:		